

LISTING OF THE CLAIMS

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1.-23. (Cancelled)

24. (Currently Amended) A method of performing a leveling action on a vehicle having a height adjustable air suspension system and undergoing a vehicle acceleration, said method comprising steps of:

- a) Initiating a leveling action adjusting said suspension system toward a pre-determined height condition of the vehicle;
- b) discontinuing said leveling action upon the vehicle acceleration exceeding a first pre-determined acceleration threshold prior to said suspension system achieving said pre-determined height condition;
- c) waiting until the vehicle acceleration decreases below a second pre-determined acceleration threshold that is less than said first pre-determined threshold for a pre-determined period of time; and,
- d) continuing said leveling action adjusting said suspension system toward said pre-determined height condition.

25. (Previously Presented) A method according to claim 24, wherein said suspension system includes a controller and said method includes said controller acting to at least partially execute step a).

26. (Previously Presented) A method according to claim 25, wherein said method includes said controller acting to at least partially execute at least one of steps b) and d).

27. (Previously Presented) A method according to claim 24, wherein said method includes steps of determining the vehicle acceleration, comparing the vehicle acceleration with said first pre-determined acceleration threshold, and determining that the vehicle acceleration is greater than said first pre-determined acceleration threshold prior to step b).

28. (Previously Presented) A method according to claim 27, wherein said air suspension system includes an accelerometer and a controller, and said method includes steps of said accelerometer measuring the vehicle acceleration and communicating a signal to said controller.

29. (Previously Presented) A method according to claim 24, wherein said first pre-determined threshold is an acceleration value of from about 0.2g to about 0.4g.

30. (Previously Presented) A method according to claim 24, wherein said second pre-determined threshold is an acceleration value of from about 0.05g to about 0.25g.

31. (Cancelled)

32. (Currently Amended) A method according to ~~claim 34~~ claim 24, wherein said pre-determined period of time is one of greater than and substantially equal to about one second.

33. (Currently Amended) A method of executing a leveling action on a vehicle having a height adjustable air suspension system, said method comprising steps of:

- a) initiating a leveling action adjusting said suspension system toward a pre-determined height condition of the vehicle;
- b) determining an acceleration value of an acceleration acting on the vehicle;
- c) comparing said acceleration value to a first pre-determined threshold value;
- d) discontinuing said leveling action in response to said acceleration value exceeding said first pre-determined threshold value;
- e) waiting until said acceleration value is one of less than and substantially equal to a second pre-determined threshold value that is less than said first pre-determined threshold value for a pre-determined duration; and,
- f) continuing said leveling action adjusting said suspension system toward a pre-determined height condition of the vehicle.

34. (Cancelled)

35. (Previously Presented) A method according to claim 33, wherein said first pre-determined threshold value is from about 0.2g to about 0.4g.

36. (Previously Presented) A method according to claim 33, wherein said air suspension system includes a controller and step a) includes said controller at least partially executing said leveling action.

37. (Previously Presented) A method according to claim 36, wherein step d) includes said controller acting to at least partially discontinue said leveling action.

38. (Previously Presented) A method according to claim 36, wherein step f) includes said controller acting to continue said leveling action once said acceleration value has been one of less than and substantially equal to said second pre-determined threshold value for a pre-determined duration.

39. (Previously Presented) A method according to claim 33, wherein said air suspension system includes an acceleration-determining device, and step b) includes said acceleration-determining device determining said acceleration value.

40. (Previously Presented) A method according to claim 39, wherein step e) includes said acceleration-determining device periodically determining an acceleration value corresponding to the acceleration and outputting a signal representative of said acceleration value.

41. (Previously Presented) A method according to claim 33, wherein said air suspension system includes a comparator, and step b) includes said comparator receiving a signal representative of said acceleration value and comparing said signal to said first pre-determined threshold.

42. (Previously Presented) A method according to claim 41, wherein step e) includes said comparator comparing a signal representative of said acceleration value to said second pre-determined value.

43. (Previously Presented) A method according to claim 33, wherein said air suspension system includes a timer and step e) includes said timer monitoring a duration that said acceleration value is one of less than and substantially equal to said second pre-determined threshold.

44. (Currently Amended) A method of leveling a vehicle having a height adjustable air suspension system that includes a controller, an acceleration-determining device, a comparator and a memory storing a first pre-determined threshold value and a second pre-determined threshold value that is less than said first pre-determined threshold value, said method comprising steps of:

- a) determining an acceleration value of an acceleration acting on the vehicle using said acceleration-determining device;
- b) comparing said acceleration value to said first pre-determined threshold value using said comparator;
- c) initiating a leveling action using said controller to adjust said suspension system toward a pre-determined height condition of the vehicle in response to said acceleration value being one of less than and substantially equal to said first pre-determined threshold value;
- d) repeating steps a) through c) until said acceleration value is greater than said first pre-determined threshold value;
- e) discontinuing said leveling action prior to said suspension system achieving said pre-determined height condition in response to said acceleration value being greater than said first pre-determined threshold value;
- f) waiting until said acceleration value is one of less than and substantially equal to said second pre-determined threshold value for a pre-determined period of time; and,
- g) continuing said discontinued leveling action adjusting said suspension system toward said pre-determined height condition.

45. (Currently Amended) A method according to claim 44, wherein said suspension system includes a timer and step f) includes determining that said acceleration value is one of less than and substantially equal to said second pre-determined threshold value for a said pre-determined period of time using said timer.

46. (Previously Presented) A method according to claim 44 further comprising a step a repeating steps a) to g) after said suspension system has achieved said pre-determined height condition in step g).